General Information

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Contracting Office Address

Defense Energy Support Center (DESC), 8725 John J. Kingman Road, Room 3830, Fort Belvoir, Virginia 22060-6222.

Description

This is a SOURCES SOUGHT NOTICE to determine the availability of potential sources to privatize the applicable electric, natural gas, and water distribution and wastewater collection systems at Arnold Air Force Base, Tennessee. Arnold AFB is located in middle Tennessee, just off of Interstate 24 and halfway between Nashville and Chattanooga; it is 7 miles SE of Manchester, TN. The base covers approximately 40,000 acres, straddling Coffee and Franklin counties and situated in the tri-city triangle composed of Tullahoma, Manchester, and Winchester. Arnold's primary mission is the Arnold Engineering Development Center (AEDC), which supports the development of aerospace systems by testing hardware in facilities that simulate flight conditions. This heavy industrial center operates aerodynamic and propulsion wind tunnels, rocket motor and turbine engine test cells, space environmental chambers, arc heaters, ballistic ranges and other specialized units. There are approximately 300 facilities on Arnold AFB, most located in the AEDC industrial area supporting the industrial mission. Arnold Village is a small, 40-unit military family housing complex, VOQ, recreation area, conference/leadership facility, club, and golf course located at the Woods Reservoir. Key to successful test operations is timely, accurate delivery of utility services. Utility operation is fully integrated in plant management through a single Tactical Integration Group (TIG) in the AEDC operations center. Utility operators are envisioned to be full-time, on-site partners in the TIG. Test operations fluctuate daily, even hourly, with a high percentage of schedule change occurring. Maintenance and Repair (M&R) requires close coordination with operations to ensure availability and safety. Ultimately, utility service delivery may not be allowed to negatively impact test scheduling and test operation

Electric System –Electricity is provided to the base by the Tennessee Valley Authority (TVA) via two 161kV circuits from TVA's Franklin Substation. The

primary power at 161kV enters the base from the southwest. It terminates at the dead-end structure, which is located in the government-owned 161kV switching station. The main switching station is constructed in a main and transfer scheme consisting of four oil-filled and nine SF6-filled 161kV power circuit breakers. The main switching station provides power to two 161-13.8kV TCUL power transformers which in turn each feed a 15kV class metal enclosed switch gear utilizing vacuum breakers. The 13.8kV 3-wire service from the metal enclosed switchgear provides electricity to ten (predominately overhead construction) distribution circuits feeding mainly facility power to the site, including five 13.8kV breakers (123,946 feet of overhead and 127,304 feet of underground wire service). In addition to the 13.8kV circuits, there are twelve 161kV oil insulated underground circuits from the main switching station which feed 27 power transformers located at eight location throughout the test site area, with an additional five SF6-filled 161kV power circuit breakers and fifteen 161kV circuit switchers. Annual consumption varies widely from 789,737 MWH (1994) to 361,615 MHW (1991). Consumption averaged 607,968 MWH over past five calendar years. Peak power requirements vary widely from 605,952KW (1994) to 356,544KW (1996). Street lighting is provided along the primary roads with pole-mounted lights.

Natural Gas System – The natural gas distribution system receives gas from a gate station at 100 psig for distribution throughout the base. There are pressure-reducing stations in the system. The system has approximately 10,000 feet of steel pipe, which is protected by a cathodic protection system. The pipe sizes range from 12-inches to 3-inches in diameter. Annual consumption is approximately 600-800 million cubic feet. The primary use of the gas is for testing purposes, fuel for the steam plants and heating.

Potable Water Treatment Plant and Supply System – The water treatment facility receives water from Woods Reservoir via a secondary reservoir. The treatment plant has a maximum capacity of 2.25 million gallons per day. The treatment plant consists of two coagulation and sedimentation basins, three gravity filters, three chemical feeders, three distribution pumps, and one laboratory for operational monitoring. Treated water is stored in two 250,000-gallon clear wells and one elevated tank. The base water distribution system consists of approximately 25 miles of piping, 50 percent of which is 6-inches in diameter and below. The remainder of the piping system is larger than 6-inches (upto14-inches). The pressure in the distribution averages 60-70 psi. There are approximately 145 fire hydrants.

Sanitary Sewer Collection System –The sanitary sewer system consists of 16 lift stations and approximately 55,000 feet of collection lines, which are mostly vitrified clay pipe. The system flow discharges into the one of the base's wastewater treatment facilities, of which there are two. The main plant (plant1) supports the AEDC industrial area. A smaller plant (plant 2) supports Arnold Village area. Plant 1 is a standard rate trickling filter plant, which consists of

primary settling tanks, trickling filter, various pumps, aerobic digesters, and drying beds with a plant design capacity of 660,000 gpd. Effluent is discharged into Rowland Creek. Plant 2 is package type extended aeration design, with a capacity of 30,000 gpd. It's effluent is discharged in Woods Reservoir.

The Contractor(s) shall furnish all facilities, labor, materials, tools, and equipment necessary to own, maintain and operate the utility system(s) in a safe and reliable condition. The Contractor(s) shall manage the maintenance, repairs, replacement, etc., of the system(s) to ensure continuous, adequate, and dependable service for each Government or tenant connection within the service area. Real property interests will be conveyed in the form of a Right of Way as an attachment to the RFP. The utility system(s) will be conveyed via a Bill of Sale upon award of the contract. At this time, no solicitation exists. Therefore, DO NOT REQUEST A COPY OF THE SOLICITATION. HOWEVER, BE ADVISED THAT SOLICITATION ISSUANCE IS ANTICIPATED ON OR ABOUT **MAY 21, 2004.**

Vendors having the skills and capabilities necessary to perform the stated requirement are invited to provide information to contribute to this market survey/sources sought including, commercial market information and company information via e-mail or facsimile (703-767-2382) to Mily Le, no later than February 16, 2004. Responses should include the following information: company name, address, point of contact, phone number and e-mail address; business size and disadvantaged, 8(a) or HUBZone status; corporate affiliations; potential joint venture partners, teaming partners, and or major subcontractor or (prime). Please specify which systems you are interested in and direct any questions or concerns to the Contracting Officer for this action: Terri Workman at terri.workman@dla.mil.

Original Point of Contact

The POC for this action is Mily Le, Phone: 703-767-2387, Fax: 703-767-2382, Email: mily.le@dla.mil.

Places of Performance

Location: Arnold Air Force Base, Tennessee

Postal Code: 37389

Country: USA